1. PROJECT TITLE/CODE NAME		
	2. SHORT PROJECT DESCRIPTION	18 May 1965
Wide-Scan, High-Power	The development of an	integral mount, light tab
Stereoviewer	I might intensity light so	ource for a high-nower w
3. CONTRACTOR NAME	111e1d, interchangeable	rhomboid stereoscope (co
CONTRACTOR NAME	4. LOCATION C	OF CONTRACTOR
5. CLASS OF CONTRACTOR	6. TYPE OF CONTRACT	
Manufacturer	CPFF	
7. FUNDS	8. REQUISITION NO.	9. BUDGET PROJECT NO.
FY 19 \$	NA.	
	10. EFFECTIVE CONTRACT DATE	NP-DV-3 (Former NP-
FY 1966 \$	(Begin - end)	11. SECURITY CLASS.
TIV 10 ±	⊣	A.A Confidentia T Unclassifie
FY 19 \$ _	July 1965 - April 19	66 W - Imala 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4
12. RESPONSIBLE DIRECTORATE/OFFICE/PR	OJECT OFFICER TELEPHONE EXTENSION	" - OHCTAPRILLE
DDI/NPIC/P&DS/	\neg	
13. REQUIREMENT/AUTHORITY		
As the resolution of future	o gradema in	
As the resolution of future resolution viewing systems existing high resolution or	becomes more attacks the re	equirement for ultra-high
existing high resolution s	tereoscopo with the	This project combines an
14. TYPE OF WORK TO BE DONE	terespective with the nedesi	sary light sources, film
This project is an engineer	ring development directed	torroad the death of a
The state of the s	of a prototype high reso	lution vious stilled
made object copcobe.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	racion viewer utilizing
5. CATEGORIES OF EFFORT		
MAJOR CATEGORY	S	UB-CATEGORIES
Direct Viewing Systems		
DATE CO O ATCARTIS D'AS CEUR	Visual	
in the second second	Interpr	etation/analysis
6. END ITEM OR SERVICES FROM THIS CON	ITPACT/ IMPROVED COM	
The second secon	TRACITIMPROVEMENT OVER CURRENT SY	STEM, EQUIPMENT, ETC.
This project should result	in an engineering prototy	pe, monthly progress repo
and an instruction manual.		_
· · · · · · · · · · · · · · · · · · ·		
7. SUPPORTING OR RELATED CONTRACTS (A	gency & Other)/COORDINATION	
By virtue of contacts throu	ghout industry and the In	telligence Community, it
appears once in edutation	Item is either in evictor	00 00 170 000 0 000 1
This development is of pote	ntial interest to PAG, PI	D and TID.
6. DESCRIPTION OF INTELLIGENCE REQUIRE tional page if required)		•
Current system materials ex	ceed the capabilities of	the Zoom 70
investigate and dereland investigate	As a consequence, it has	
Rhomboid (Versatile) Stereod developed for the Navy (NRT)	buuud Is siich an inctrimor	1t. It was originally
second prototype for evaluat	71. 1 1 1 1 1 1	7 7777777
F TOT CVALUA	orom borboses. Multe it i	Ls a superior instrument.
has a poorly designed mount	And required a amostalla-	A

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NP-DV-3

- 2. fabricated under a previous contract.
- 13. transports and stereoscope mount required to produce an effective viewer. This project is in direct response to requirements of NPIC/TID, CIA/PID and NPIC/PAG.
- 18. light source, and superior film transport system to become an operationally practical viewer. The following specifications describe an instrument that will satisfy these requirements.
- 1. This table will provide two parallel 11 x 20 inches illuminated areas for use in viewing dual or single rolls of film of any size between 70mm and $9\frac{1}{2}$ inches. These viewing areas will be side-by-side with the long axes aligned toward, and away, from the operator. They will be mounted horizontally and will be built into an elevating table. In addition, a mountime will be incorporated to rigidly support the microscope at the correct height above the light table surface. Provision will be made for this microscope to translate \pm 6-inches in x and \pm 3-inches in y -- these distances refer to displacement of the center of the scope.
- 2. General Illumination. To facilitate general viewing at the lower magnifications and for small image location, both of the lo-inches by 20-inches glass formats will be illuminated by cold cathode light grids. The intensity of illumination of each lo-inches by 20-inches area will be independently and continuously variable through 15% 100% without "flicker". Adjustable shades will be provided to mask out all of the viewing surface not actually covered by film.
- 3. <u>High-intensity Illumination</u>. Condensed illumination transmitted through two assemblies, which are positioned in the air space between the light grids and the clear glass viewing surface, through 1/8 inch diameter fiber optic cables of sufficient length to allow each illumination assembly to track to any position in the general illumination area. These illumination assemblies will then track small cylindrical magnets attached to each rhomboid. Once the magnets are locked in place, they will track the rhomboids as the scope is translated in both "x" and "y".
- At full-intensity, the high-intensity sources will provide <u>adequate</u> illumination for film with an average density of 2 as viewed through the stereoscope operating at 120x. Means will be provided for continuously varying illumination from 50% to 100%.
- 4. External Configuration. The entire light table and mount will not exceed 36-inches wide by 37-inches deep. The stereoviewer incorporates an elevating table which adjusts + 5-inches from a normal desk height of 29-inches.

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NP-DV-3

5. Film Transport. The film transport system will accommodate up to and including 500-foot spools. All spools are located at the rear of the table. The film drives incorporate mechanical power amplifiers operating on the principle of a friction assist. This design will permit bi-directional film motion controllable from the operators end of the table -- both winding and unwinding with one set of cranks.

A clear glass, solenoid operated, pressure plate is mounted (above the Film) over each illuminated area and is raised and lowered automatically when the film is transported.

6. Controls. All operational controls will be human engineered and conveniently located and readily accessible to the operator.

Proposals were solicted from eleven contractors; selection was made from the five which responded. Of these five, proposal was competitive in design philosophy, and by far the lowest in cost.

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as G.F.E.

Versatile Stereoscope will be furnished to the contractor

This project is to be negotiated on an Confidential basis. The proper security measures are in effect at the vendors plant as a result of contracts.

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JUN 1965

1. LIMIT REQUISITIONS WILL PROCESSING CIA-RDP RENAUTE 0022012013 SHEET BEFORE
2. LIMIT REQUISITION STOCK NOS. ON SEPARATE REQUISITION

TYPING — REPLACE AFTER TYPING TYPING - REPLACE AFTER TYPING SECRET XX CONFIDENTIAL NAME OF CONTACT OFFICER UNCLASSIFIED OFFICE TELEPHONE | SIGNATURE OF APPROVING OFFICER signature of technical of 55×1 NPIC BUDGET CERTIFICATION: I CERTIFY THAT COST AUTHORIZATION AND OR FUNDS ARE AVAILABLE. CHARGE COST CENTER INDICATE FUNDS ARE AVAILABLE. CHARGE COST (*) BELOW 55X1 Confidential Agency Association Pending Availability of '66 Funds SIGNATURE OF AUTHORIZING OFFICER DATE REQUISITION FOR MATERIEL AND/OR REQ'N. DATE VOU. DATE SERVICES VOU. NO. 6/3/65 5500-8507-66 FOR PROC. OBLIGATE ALLOTMENT NO. REQUIRED DATE AT DESTINATION (NOT REQUIRED FOR ROUTINE REQUS. ENTER DATE ONLY IF REQUIREMENT IS FIRM) DATE PROC. ITEMS REQUIRED IN DEPOT 6155-4100 DATE STOCK ITEMS TYPE I FPA TYPE II FPA * CHARGE COST CENTER NO. TRANSPORTATION OTHER: 6155-4100 ACCOUNTABILITY TO BE ASSUMED BY CONSIGNEE MPIC REFERENCE RECOMMENDED METHOD OF SHIPMENT (TRUCK, RAIL, SHIP, PLANE, OR POSTAL) 25X1 RECOMMENDED CHANNEL FOR SHIPMENT (COMMERCIAL, MILITARY OTHER) MARKING INSTRUCTIONS PACKING INSTRUCTIONS SOURCE STOCK CONTROL REMARKS POSTED PROC. WHSE. INITIAL DATE 3 Copies for NPIC TEM NO STOCK NO. R&D EXP NOMENCLATURE PRICING AND EDITING DATA l Development of a wide-scan, High QUANTITY UNIT UNIT PRICE EXTENSION Power Stereoviewer consisting of an integral mount, light table RELEASED ACTION S-A-C LOCATION and high intensity light source QUANTITY UNIT for use with a Versatile UNIT PRICE EXTENSION 25X Stereoscope in accordance with RELEASED ACTION the vendor's proposal dated S-A-C LOCATION 26 March 1965. QUANTITY UNIT UNIT PRICE EXTENSION RELEASED ACTION S-A-C LOCATION VENDOR: 25X1 QUANTITY UNIT UNIT PRICE EXTENSION RELEASED ACTION S-A-C LOCATION QUANTITY UNIT Proposal in possession of UNIT PRICE EXTENSION 25X1 RELEASED ACTION S-A-C LOCATION QUANTITY UNIT UNIT PRICE EXTENSION 2 June 196V APPROVED: 1 00/ RELEASED ACTION S-A-C LOCATION QUANTITY UNIT UNIT PRICE EXTENSION Approved For Release 2003/08/05: CIA-RDP78B04747%t602200030014-0-A-C LOCATION QUANTITY UNIT UNIT PRICE EXTENSION